

Forams As Storytellers

Looking at Data from the *Newport Hydrographic Line*

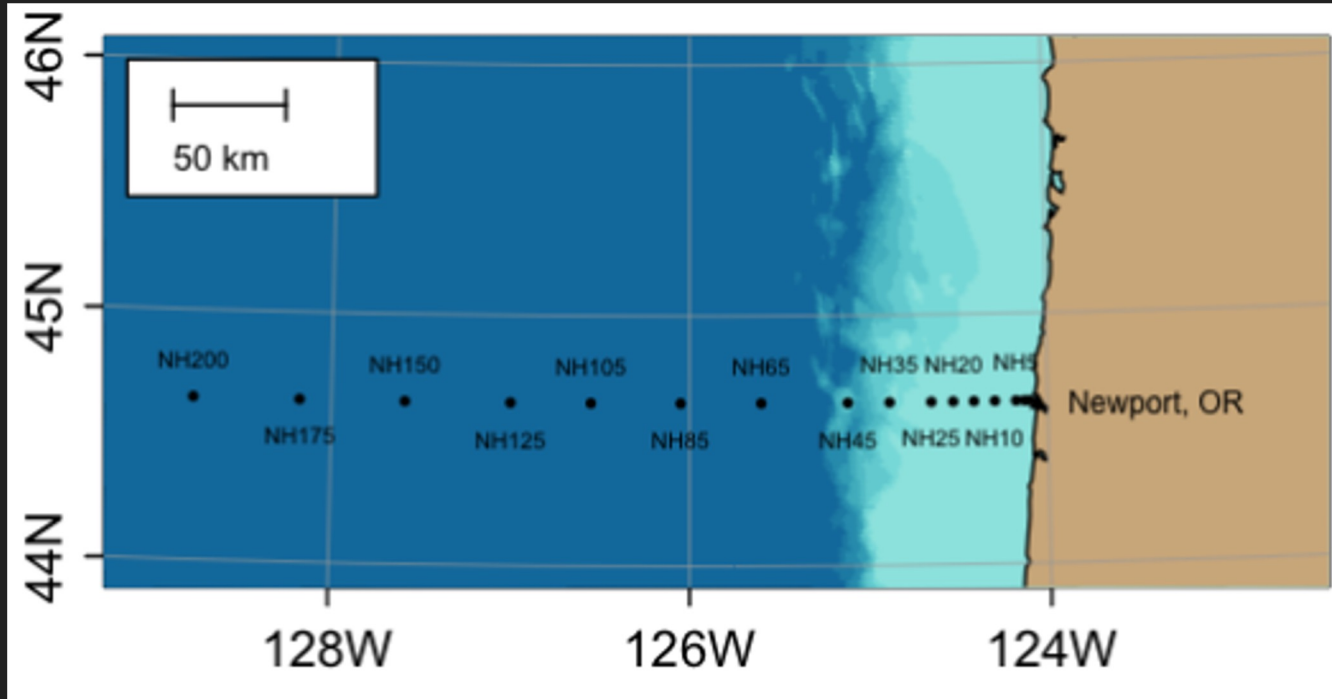


Image credit: K. Lane

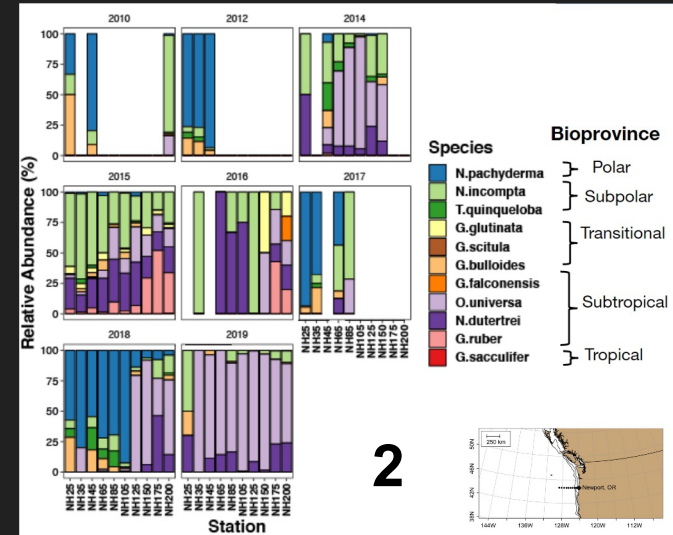
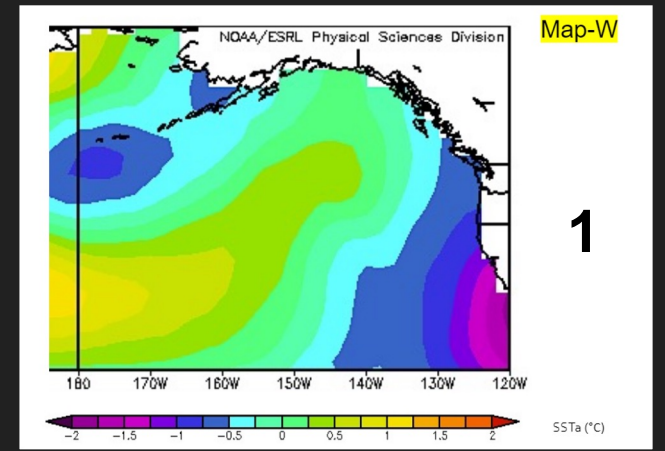
Let's look for patterns in the data

Your group will get the following materials:

1. A full set of SSTA maps, keyed by letter
2. A full set of foram abundance graphs, keyed by year AND bioprovince
3. A table for recording your predictions and explanations.

Year	Map Letter	Your group's reasoning
2010		
2012		

3



Data credit: K. Lane

Let's look for patterns in the data

Which SSTA map matches which foram relative abundance graph?

Student task:

1. With your group, look at the SSTA maps from 2010 to 2019. Note** They are not labeled by year, only letter
2. Notice how the SSTs are higher or lower than average.
3. Look at the graphs of relative abundances for the forams, and pay attention to the bioprovinces.
4. Are there more or fewer polar species? Are there more or fewer tropical species?
5. What could that mean about which map 'matches' that data?
6. As a group, work to match the SSTA maps to a specific graph.
7. Record your work on the table on your 'Group Analysis' sheet.

Sharing predictions

Have your recorder come to the board or front to record your group's findings

Do you notice anything about our class's findings?

How do these storytellers relate to the Blob?

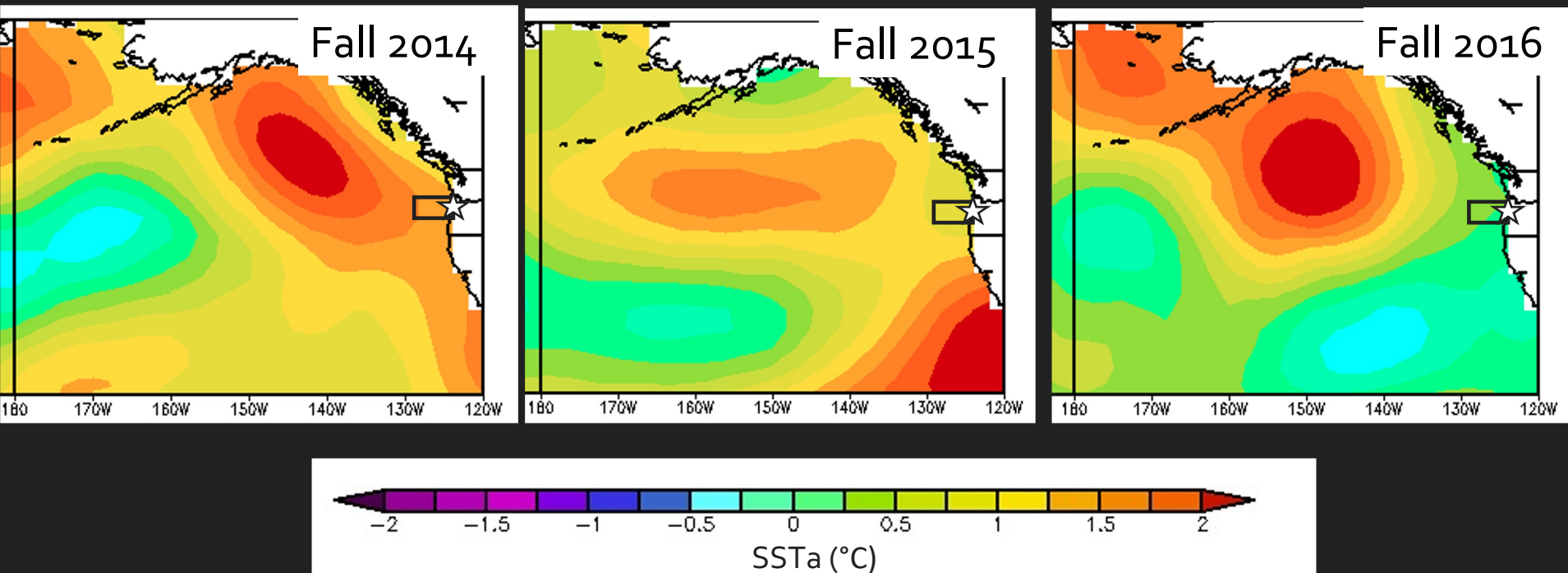
Let's look at the Foram Abundances from 2014 to 2016, the time of 'The Blob.'

What do the Foram abundances tell us about the water temperatures?

Let's take a look now at the SSTAs from 2014 to 2016.....the Blob....

2014-2016

Sea surface temperature anomalies



The Blob



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<https://youtu.be/NN08ixRpfhE>

Video credit: UBC

Work on the Individual Student Reflection

Key for Maps

Key for Maps

Fall 2010=W

Fall 2012=K

Fall 2014=Q

Fall 2015=A

Fall 2016=M

Fall 2017=O

Fall 2018=Z

Fall 2019=L

Check your predictions against the key.

How did your group do?

Why might some of your predictions be different?